

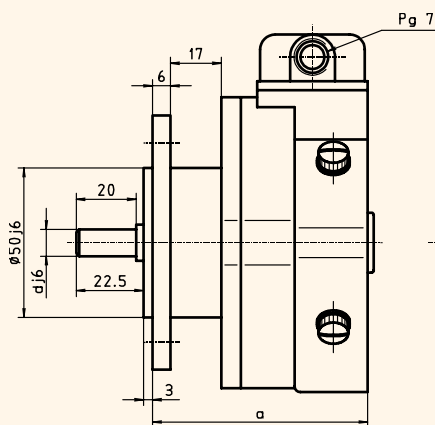
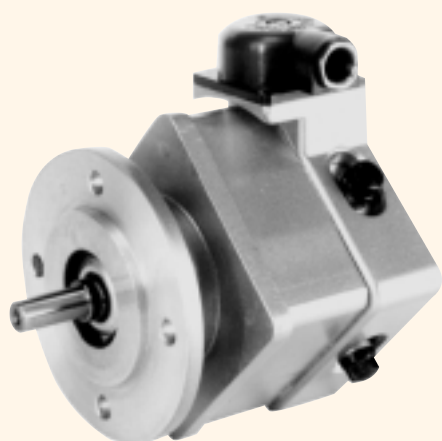
# DC tachogenerator

KTD 3-... B 5 Y 3, KTD 3-... B10



## Qualities:

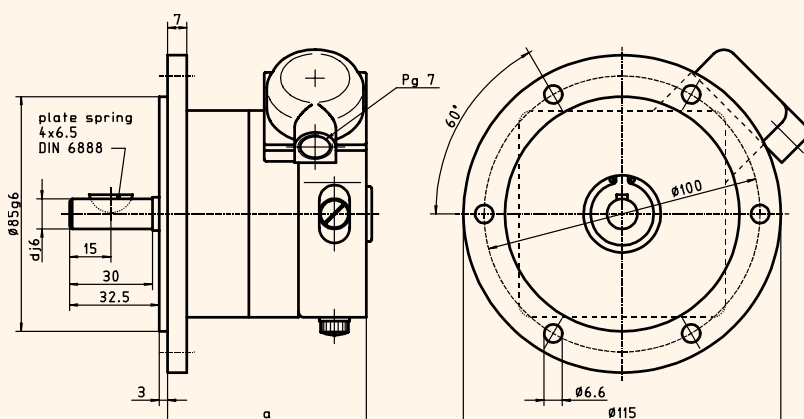
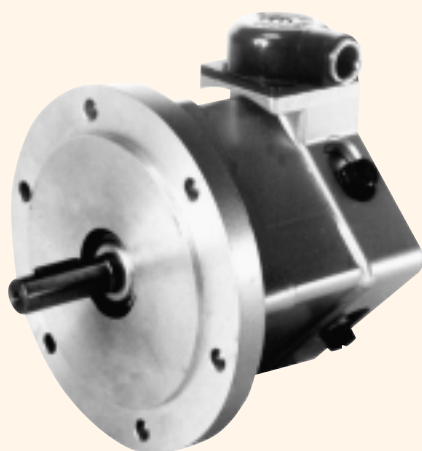
- High reaction rate
- Large speed range
- Recognition of rotational direction
- Small percent ripple
- No power supply



Type	V-	a
KTD 3-1 B5 Y3	10	72
KTD 3-2 B5 Y3	20	72
KTD 3-3 B5 Y3	30	72
KTD 3-4 B5 Y3	40	82
KTD 3-6 B5 Y3	60	82

KTD 3-... B 5 Y 3

drawing-no.: 023 - 28 Y 3



Type	V-	a
KTD 3-1 B10	10	72
KTD 3-2 B10	20	72
KTD 3-3 B10	30	72
KTD 3-4 B10	40	82
KTD 3-6 B10	60	82

KTD 3-... B10

drawing-no.: 015 - 7

# DC tachogenerator

## KTD 3-... B 5 Y 3, KTD 3-... B10



### Mechanical data:

Housing		light - alloy metal unpainted, steel zined
Design style		B 5, B10
Protective class		IP 54 <i>according to DIN 40 050, IEC 529</i>
Shaft diameter	KTD 3-... B 5 Y 3 d	9 mm
	KTD 3-... B10 d	11 mm
Mass moment of inertia	J	KTD 3-1 to KTD 3-3: 660 gcm <sup>2</sup> KTD 3-4 to KTD 3-6: 970 gcm <sup>2</sup>

### Electrical data: referenced to 1000 rpm

Type	Rated voltage [ V ]	Rated current [ mA ]	max. current [ mA ]	Armature resistance [ Ohm ]	Upper speed limit [ rpm ]	Weight B 5 rotor and housing g	Weight B10 rotor and housing g
KTD 3-1 ...	10	10	100	45	6000	1100	1550
KTD 3-2 ...	20	10	80	170	6000	1100	1550
KTD 3-3 ...	30	10	80	170	6000	1100	1550
KTD 3-4 ...	40	10	80	220	4000	1300	1650
KTD 3-6 ...	60	30	80	200	3000	1300	1650

Polarity		dependent on rotation direction
Number of pole pair		2 = 4-poles
Number of grooves, segments		29
Grooves frequency		$f_N = \frac{29}{30} \cdot n$
Reversing error		$\leq \pm 0,1 \%$
Residual ripple		$\leq 0,4 \%$
Linearity error		$\leq 0,15 \%$
Regulation range lower limit	$n_R$	0 rpm
Temperature drift ( - 10 °C to + 100 °C )		$\pm 0,1 \%$ / 10 K ( compensated )
Type of connection		terminal box, 2-poles
Isolation class		B
Carbon brushes		4 pieces AG 3 x 4 x 12
Carbon brushes life		approx. 20.000 hours of operation
Maintenance		after 10.000 hours in service

### Options:

- Without terminal box cable - version
- With centrifugal switch
- Silver track in the collector
- Enhanced protective class